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<input type="checkbox"/>	L49	((right\$ adj1 manag\$) or (manag\$ adj1 right\$)).clm.	22
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1 Digital rights management for the online music business 77%

Sai Ho Kwok

ACM SIGecom Exchanges June 2002

Volume 3 Issue 3

Digital rights management has become a pressing concern for the online music business. Existing digital rights management systems are backed by two license management models, the tethered model and the untethered model. These two license management models focus on the management of payments and usage rights. The problems with these models are that the tethered model forces consumers to be online, while the untethered model provides relatively less security to the license residing locally. This p ...

2 Open problems in electronic commerce 77%

J. D. Tygar

Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems May 1999

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1 [Design and evaluation of a wide-area event notification service](#)

 August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3
Full text available: [pdf\(1.08 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provided ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

2 [Cryptographic security Techniques for wireless networks](#)

Danai Patiyoote, S. J. Shepherd

 April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2
Full text available: [pdf\(1.12 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper deals with security techniques for wireless Networks. The work presented is based on a review of literature regarding current and future wireless security networks systems. The aspects discussed in this paper included the choices of cryptographic algorithms such as protocols for key management and authentication. Various conclusions are drawn from existing security networks and proposed in new wireless ATM network security. Also a proposal for future research into security techniques ...

Keywords: cryptographic, security, wireless

3 [Key management and key exchange: A temporal key management scheme for secure broadcasting of XML documents](#)

Elisa Bertino, Barbara Carminati, Elena Ferrari

 November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**
Full text available: [pdf\(242.89 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Secure broadcasting of web documents is becoming a crucial need for many web-based applications. Under the broadcast document dissemination strategy a web document source periodically broad-casts (portions of) its documents to a possibly large community of subjects, without the need of explicit subject requests. By secure broadcasting we mean that the delivery of information to sub-jects must obey the access control policies of the document source. Since different subjects may have the right to ...

Keywords: XML, secure broadcasting, temporal key management

4 DRM experience: Digital rights management in a 3G mobile phone and beyond

Thomas S. Messerges, Ezzat A. Dabbish

October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

Full text available:  pdf(306.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for protecting digital content in the embedded environment of a mobile phone is proposed and the elements in this system are defined. The means to enforce security in this system are described and a novel "Family Domain" approach to content management ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

5 Unlinkable serial transactions: protocols and applications

Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4

Full text available:  pdf(184.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based subscription services. It is the first protocol to use cryptographic blinding to enable subscription services. The protocol prevents the service from tracking the behavior of its customers, while protecting the service vendor from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protocol are robust against failure in protocol termination. ...

Keywords: anonymity, blinding, cryptographic protocols, unlinkable serial transactions

6 Computer-supported cooperative work: A service architecture for mobile teamwork

Engin Kirda, Pascal Fenkam, Gerald Reif, Harald Gall

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available:  pdf(92.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Mobile teamwork has become an emerging requirement in the daily business of large enterprises. Employees collaborate across locations and need support while they are on the move. Business documents (artifacts) and expertise need to be shared independent of the actual location or connectivity (e.g., access through a mobile phone, laptop, Personal Digital Assistant, etc.) of employees. Although many collaboration tools and systems exist, most do not deal with new requirements such as locating arti ...

Keywords: XML, architectures, collaborative systems, components, distributed searches, meta-data and XQL, mobile teamwork

7 Denial-of-service: Robustness to inflated subscription in multicast congestion control

Sergey Gorinsky, Sugat Jain, Harrick Vin, Yongguang Zhang

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Full text available: [pdf\(282.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Group subscription is a useful mechanism for multicast congestion control: RLM, RLC, FLID-DL, and WEBRC form a promising line of multi-group protocols where receivers provide no feedback to the sender but control congestion via group membership regulation.

Unfortunately, the group subscription mechanism also offers receivers an opportunity to elicit self-beneficial bandwidth allocations. In particular, a misbehaving receiver can ignore guidelines for group subscription and choose an unfairly high ...

Keywords: congestion control, fair bandwidth allocation, misbehaving receivers, multicast, robustness

8 Shopping models: a flexible architecture for information commerce

Steven P. Ketchpel, Hector Garcia-Molina, Andreas Paepcke

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available: [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 SCMP.com: strategic repositioning of a newspaper

Ali Farhoomand, Eva Kwan

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available: [pdf\(361.56 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

10 Exploiting IP multicast in content-based publish-subscribe systems

Lukasz Opyrchal, Mark Astley, Joshua Auerbach, Guruduth Banavar, Robert Strom, Daniel Sturman

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Full text available: [pdf\(390.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Publish-subscribe systems are evolving toward using content-based subscription rather than subject-based subscription. A key problem in implementing such systems is that a straightforward mapping from matching sets to multicast groups produces a number of groups that rapidly grows beyond practical limits. This paper proposes a set of alternative algorithms for solving this problem, by: (1) using a smaller set of overbroad multicast groups, judiciously chosen to minimize imprecision; (2) issu ...

11 The design and applications of a context service

Hui Lei, Daby M. Sow, John S. Davis, Guruduth Banavar, Maria R. Ebling

October 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 4

Full text available: [pdf\(87.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Context awareness enables applications to adapt themselves to their computing environment in order to better suit the needs of the user and the tasks. This paper describes

a general middleware infrastructure for context collection and dissemination, realized as a Context Service. By way of two example applications, this paper also illustrates how context information provided by our context service can be exploited to enhance the user experience. These two applications are built upon the abstract ...

12 Economic aspects of configuring cellular networks

Bezalel Gavish, Suresh Sridhar

February 1995 **Wireless Networks**, Volume 1 Issue 1

Full text available:  [pdf\(1.25 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses economic aspects of configuring cellular networks. Major components of costs and revenues and the major stakeholders are identified and a model is developed to determine the system configuration (e.g. cell size, number of channels, etc.) which will maximize the annual expected net revenues to the system operator. Key properties relating the various parameters of interest are derived. The results of computational experiments are presented and their implications are discussed ...

13 Design guidelines for mobile information and entertainment services: based on the Radio538 ringtones i-mode service case study

Elisabeth van de Kar, Carleen F. Maitland, Uta Wehn de Montalvo, Harry Bouwman

September 2003 **Proceedings of the 5th international conference on Electronic commerce**

Full text available:  [pdf\(200.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The mobile telecommunications industry is undergoing rapid change, which is increasing the interdependency of firms in the sector. Mobile information and entertainment services will be delivered through inter-organizational networks of firms. This means the problems of service design must be resolved in the context of a complex value network. To shed light on these problems we present a case study of a ringtone service and from this develop guidelines for the design of similar services.

Keywords: design guidelines, inter-organizational networks, mobile information and entertainment services

14 Pushing reactive services to XML repositories using active rules

Angela Bonifati, Stefano Ceri, Stefano Paraboschi

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  [pdf\(203.85 KB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SOAP, XML, active rules, document management, push technology, query languages for XML

15 Functional paleontology: system evolution as the user sees it

Annie I. Antón, Colin Potts

July 2001 **Proceedings of the 23rd international conference on Software engineering**

Full text available:  [pdf\(201.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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It has long been accepted that requirements analysis should precede architectural design and implementation, but in software evolution and reverse engineering this concern with black-box analysis of function has necessarily been de-emphasized in favor of code-based


analysis and designer-oriented interpretation. In this paper, we redress this balance by describing "functional paleontology", an approach to analyzing the evolution of user-visible features or services independent o ...

Keywords: human-computer interaction (HCI), measurement, metrics, and empirical methods, requirements engineering, reverse engineering, software evolution

16 Speech and ambiguous input: Distributed mediation of ambiguous context in aware environments

Anind Dey, Jennifer Mankoff, Gregory Abowd, Scott Carter

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Full text available:  pdf(672.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many context-aware services make the assumption that the context they use is completely accurate. However, in reality, both sensed and interpreted context is often ambiguous. A challenge facing the development of realistic and deployable context-aware services, therefore, is the ability to handle ambiguous context. In this paper, we describe an architecture that supports the building of context-aware services that assume context is ambiguous and allows for mediation of ambiguity by mobile users ...

Keywords: ambiguity, aware environments, context-aware computing, error handling, mediation, ubiquitous computing

17 Mobility and Wireless Access: Personalized pocket directories for mobile devices

Doron Cohen, Michael Herscovici, Yael Petruschka, Yoëlle S. Maarek, Aya Soffer

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available:  pdf(529.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In spite of the increase in the availability of mobile devices in the last few years, Web information is not yet as accessible from PDAs or WAP phones as it is from the desktop. In this paper, we propose a solution for supporting one of the most popular information discovery mechanisms, namely Web directory navigation, from mobile devices. Our proposed solution consists of caching enough information on the device itself in order to conduct most of the navigation actions locally (with subsecond r ...

Keywords: hierarchical browsers, mobile devices, mobile search, personalization

18 Role-based access control in telecommunication service management—dynamic role creation and management in TINA service environment

Takeo Hamada

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Full text available:  pdf(975.87 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: TINA, role algebra, role class hierarchy, role mapping, role-based access control, security space, strongly-rolled system, telecommunication service management

19 DVM: an object-oriented framework for building large distributed Ada systems

Christopher J. Thompson, Vincent Celier

November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world**

Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [references](#)

20 Digital libraries, value, and productivity

Gio Wiederhold

April 1995 **Communications of the ACM**, Volume 38 Issue 4

Full text available:  [pdf\(292.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A digital library is popularly viewed an electronic version of a public library. But replacing paper by electronic storage leads to three major differences: storage in digital form, direct communication to obtain material, and copying from a master version. These differences in turn lead to a plethora of further differences, so that eventually the digital library no longer mimics the traditional library. Furthermore, a library is only element in the process of creating, storing, culling, ac ...

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